**CMT 413**

**NETWORK AND SYSTEM ADMINISTRATION**

**Applying technology in an environment**

→ The key task of network and system administration is to build the hardware configurations and the other is to configure software systems

→ Both of these tasks(Hardware and Software configure software systems

→ Both of these functions presents their own challenges i.e hardware configuration challenges and none of these challenges can be considered in isolation

→ The hardware must conform to the constraints of the physical world

→ Such challenges include : power, climate

→ The kind of hardware limits the software that can run on it

→ The hardware constraints affect the performance to basic standards in order to work systematically

→ For software configuration, basic operating system, infrastructure are key to conformance standards

→ Modern software in the context of global network need to interact and survive possible hostilities of the incompatible or inhospitable competitors

→ Today the complexity of multiple software systems sharing a common internet space reaches almost the level of the biological

→ In today’s networks, our focus is not only in the physical environment but the technology environment

→The challenge with the technology environment is that it is constantly changing

→ we apply technology in these changing environments for the purposes of running businesses and other practices

→ The global view presented to us by IT means that we have to think on penetration for the systems that are going to be deployed

→ The extensive filaments of our inter-networked systems are exposed to attacks both accidental and malicious in a competitive jungle

→ If you ignore the environment you expose then organization you IT assets to an immeasurable risk

**The Human Role in Systems**

→ For the part of the human tasks of the system administration is a very careful balancing task

→ This task quires patience knowledge understanding and experience

→ The human tasks in systems can be compared to be equivalent to working in a casualty ward in hospitals

→ despite this diamante system admins work with limited resources and computer systems are subjected to entropy

\* As a system admin you must recognize that answers are not always written down for you to copy

→ One important aspect for a system designer and admin is to remain calm when problems happen and attentive and moreover he/she must continually keep learning because of the changing environment